BITSAT Crash Course 2025 Lecture Planner - Inorganic Chemistry								
S.No.	Batch Name	Subject	Sub- Subject	Chapter Name	Topic	No. of Lecture	Date	Faculty Name
1	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Classification of Elements and Periodicity in Properties	Need for Classification of Elements,Historical Development of Classification of Elements,Magic Numbers Modern Periodic Law and Present Form of the Periodic Table,Merits of Long Form of Periodic Table Over Mendeleev's Periodic Table Electronic Configuration of Elements and The Periodic Table Division of Elements into s, p, d and f Blocks, and Their Characteristics Classification of Elements as Metals, Nonmetals and Metalloids Anomalous Properties of Second Period Elements Diagonal Relationship Bridge Elements Typical Elements Nomenclature of Elements With Atomic Number > 100 Periodic Properties,Screening Effect,Effective Nuclear Charge Periodic Trends in Physical Properties,Periodic Properties Scales of Electronegativity,Factors affecting the magnitude of electronegativity Periodicity in Electronegativity Application of Electronegativity,Hydration Energy,Lattice Energy Melting and Boiling Points	1	Wednesday, March 26, 2025	Bijendra Kumar Ray Sir
2	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Chemical Bonding and Molecular Structure	Introduction,Ionic or Electrovalent Bond,Lattice Energy Kössel - Lewis Approach to Chemical Bonding Resonating Structure, Resonance Energy,Valence Shell Electron Pair Repulsion (VSEPR) Theory Valence Bond Theory (VBT) VSEPR Theory Hybridisation	1	Thursday, March 27, 2025	Bijendra Kumar Ray Sir
3	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Chemical Bonding and Molecular Structure	Determination of Number of [p(pi) - p(pi)] Bonds Dipole Moment Polarisability and Fajan's Rule Polarity of Covalent Bonds Linear Combination of Atomic Orbitals (LCAO) Molecular Orbital Theory (MOT) Shapes of the Molecular Orbitals Bond Enthalpy or Bond Dissociation Enthalpy Bond Parameters Hydrogen Bonds,Intermolecular Forces Back Bonding, Bridge bonding	2	Friday, March 28, 2025	Bijendra Kumar Ray Sir
4	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Coordination Compounds	Coordination Compounds Part 1	1	Wednesday, April 30, 2025	Bijendra Kumar Ray Sir
5	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Coordination Compounds	Coordination Compounds Part 2	2	Thursday, May 1, 2025	Bijendra Kumar Ray Sir
6	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	P-block Elements	General Properties Group 13 elements Group 14 elements:	1	Friday, May 2, 2025	Bijendra Kumar Ray Sir
7	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	P-block Elements	Group 15 elements: Group 16 elements: Group 17 and group 18 elements	2	Saturday, May 3, 2025	Bijendra Kumar Ray Sir
8	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	The d and f-Block Elements	Introduction Position in the Periodic Table Electronic Configuration of the d-Block Elements Electronic Configuration of the d-Block Elements Physical Properties General Properties of Transition Elements (d-Block) Some Useful Compounds of Transition Elements The Lanthanides	1	Tuesday, May 6, 2025	Bijendra Kumar Ray Sir
9	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF METALS	Introduction Main step involved in metallurgy Alloys and amalgams Different types of furnaces Metallurgy of Some Metal Steel Uses of Metal	1	Wednesday, May 7, 2025	Bijendra Kumar Ray Sir
10	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	Hydrogen and its Compound	Position of Hydrogen in the Periodic Table Hydrogen Isotopes of Hydrogen Preparation of Dihydrogen, H2 Physical properties of Dihydrogen Chemical properties of Dihydrogen Uses of Dihydrogen Hydrides Water Permanent Hardness	1	Thursday, May 8, 2025	Bijendra Kumar Ray Sir

11	BITSAT Crash Course 2025	Chemistry	Inorganic Chemistry	S-block Element	Group 1 Elements Physical Properties of Group 1 Elements Chemical Properties of Group 1 Elements Uses of Group 1 elements General characteristics of the compounds of the alkali metals Anomalous properties of lithium Some important compounds of sodium Biological importance of sodium and potassium Group 2 elements Physical properties of group 2 elements Chemical properties of group 2 elements Uses General characteristics of compounds of the alkaline earth metals Anomalous behaviour of beryllium Cement Biological importance of magnesium and calcium	1	Friday, May 9, 2025	Bijendra Kumar Ray Sir